

Luo Gu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35
papers

5,625
citations

23
h-index

37
g-index

37
ext. papers

6,575
ext. citations

16.1
avg, IF

5.89
L-index

#	Paper	IF	Citations
35	Biodegradable luminescent porous silicon nanoparticles for in vivo applications. <i>Nature Materials</i> , 2009 , 8, 331-6	27	1527
34	Hydrogels with tunable stress relaxation regulate stem cell fate and activity. <i>Nature Materials</i> , 2016 , 15, 326-34	27	1153
33	Substrate stress relaxation regulates cell spreading. <i>Nature Communications</i> , 2015 , 6, 6364	17.4	485
32	Bioresponsive mesoporous silica nanoparticles for triggered drug release. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19582-5	16.4	303
31	Biomaterials and emerging anticancer therapeutics: engineering the microenvironment. <i>Nature Reviews Cancer</i> , 2016 , 16, 56-66	31.3	266
30	In vivo time-gated fluorescence imaging with biodegradable luminescent porous silicon nanoparticles. <i>Nature Communications</i> , 2013 , 4, 2326	17.4	249
29	Porous silicon nanoparticle photosensitizers for singlet oxygen and their phototoxicity against cancer cells. <i>ACS Nano</i> , 2011 , 5, 3651-9	16.7	242
28	Mechanical confinement regulates cartilage matrix formation by chondrocytes. <i>Nature Materials</i> , 2017 , 16, 1243-1251	27	220
27	In vivo clearance and toxicity of monodisperse iron oxide nanocrystals. <i>ACS Nano</i> , 2012 , 6, 4947-54	16.7	161
26	Liposomal Delivery Enhances Immune Activation by STING Agonists for Cancer Immunotherapy. <i>Advanced Biology</i> , 2017 , 1, 1600013	3.5	122
25	Biphasic ferrogels for triggered drug and cell delivery. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1869-76	10.1	105
24	Magnetic luminescent porous silicon microparticles for localized delivery of molecular drug payloads. <i>Small</i> , 2010 , 6, 2546-52	11	95
23	Multivalent porous silicon nanoparticles enhance the immune activation potency of agonistic CD40 antibody. <i>Advanced Materials</i> , 2012 , 24, 3981-7	24	80
22	Size Control of Porous Silicon Nanoparticles by Electrochemical Perforation Etching. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 252-256	3.1	77
21	Hydrogel substrate stress-relaxation regulates the spreading and proliferation of mouse myoblasts. <i>Acta Biomaterialia</i> , 2017 , 62, 82-90	10.8	72
20	Substrate Stress-Relaxation Regulates Scaffold Remodeling and Bone Formation In Vivo. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1601185	10.1	68
19	Material microenvironmental properties couple to induce distinct transcriptional programs in mammalian stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8368-E8377	11.5	67

18	The effect of surface modification of mesoporous silica micro-rod scaffold on immune cell activation and infiltration. <i>Biomaterials</i> , 2016 , 83, 249-56	15.6	65
17	Biomaterials as vectors for the delivery of CRISPR-Cas9. <i>Biomaterials Science</i> , 2019 , 7, 1240-1261	7.4	52
16	Tissue-engineered blood-brain barrier models via directed differentiation of human induced pluripotent stem cells. <i>Scientific Reports</i> , 2019 , 9, 13957	4.9	44
15	RNA-seq reveals diverse effects of substrate stiffness on mesenchymal stem cells. <i>Biomaterials</i> , 2018 , 181, 182-188	15.6	40
14	Sequential release of nanoparticle payloads from ultrasonically burstable capsules. <i>Biomaterials</i> , 2016 , 75, 91-101	15.6	37
13	Structurally Dynamic Hydrogels for Biomedical Applications: Pursuing a Fine Balance between Macroscopic Stability and Microscopic Dynamics. <i>Chemical Reviews</i> , 2021 , 121, 11149-11193	68.1	30
12	Single-Shot Mesoporous Silica Rods Scaffold for Induction of Humoral Responses Against Small Antigens. <i>Advanced Functional Materials</i> , 2020 , 30, 2002448	15.6	17
11	Alginate Hydrogels for Bone Regeneration: The Immune Competence of the Animal Model Matters. <i>Tissue Engineering - Part A</i> , 2020 , 26, 852-862	3.9	14
10	Detection of protease activity by FRET using porous silicon as an energy acceptor. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1374-1376	1.6	7
9	Probing Membrane Protein Association Using Concentration-Dependent Number and Brightness. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6503-6508	16.4	4
8	The living interface between synthetic biology and biomaterial design.. <i>Nature Materials</i> , 2022 , 21, 390-397		4
7	Submolecular Tuning of Ligand Size and Spacing for Dynamic Macrophage Modulation.. <i>Advanced Materials</i> , 2022 , e2110340	24	4
6	Nanoparticles for Immunotherapy: Multivalent Porous Silicon Nanoparticles Enhance the Immune Activation Potency of Agonistic CD40 Antibody (Adv. Mater. 29/2012). <i>Advanced Materials</i> , 2012 , 24, 4025-4025	24	1
5	Functional heterogeneity of IFN- γ -licensed mesenchymal stromal cell immunosuppressive capacity on biomaterials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
4	Scaffold Vaccines for Generating Robust and Tunable Antibody Responses. <i>Advanced Functional Materials</i> , 2110905	15.6	0
3	Probing Membrane Protein Association Using Concentration-Dependent Number and Brightness. <i>Angewandte Chemie</i> , 2021 , 133, 6577-6582	3.6	0
2	Deep learning identification of stiffness markers in breast cancer.. <i>Biomaterials</i> , 2022 , 285, 121540	15.6	0
1	Drug delivery: Magnetic Luminescent Porous Silicon Microparticles for Localized Delivery of Molecular Drug Payloads (Small 22/2010). <i>Small</i> , 2010 , 6, 2545-2545	11	

